

SECRET



15 July 1960



HX-15

SYCAMORE 9-4171
RYAN 1-3361

25X1A

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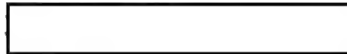


P. O. Box 1407
Main Post Office
Washington 12, D. C.

JWC
25 July 60

25X1A

Subject: Contract



Dear Sir:

Transmitted herewith are three (3) copies of the monthly status report on the rectifier program.

Very truly yours,

25X1A



Contract Administrator

HRE/pb

cc: Contracting Officer

Declass Review by NIMA/DOD

SECRET

1 July 1960

PHOTOGRAPHIC RECTIFIER

Report of Technical Progress

I. Progress During June, 1960

All purchased parts have been ordered excepting those items withheld for test results on Unit No. 1. Interconnection cables are complete for No. 1. Internal cable harness layouts are complete and the three racks of the first unit are being cabled.

The components of the digital control system are assembled for the first unit. Testing of the sub-system is near completion and indicates good reliable operation can be expected.

The Indexing Servo has been built and tested. The Inductosyn has been delivered and preliminary tests indicate that linear resolution of 0.0001" can be obtained.

The Servo Amplifiers have been built. These units have been delayed until completion of a special servomechanism (for the Photomultiplier). Test data is not available. Since these equipments utilize the same designs as that for the engineering model, a minimum of test will be required.

The components of the Photo-transmission System for the Reader & Control Console have been built and preliminary testing is complete. The largest delay occurring has been with this sub-system. The components of the Printing Console have yet to be assembled.

II. Principal Problems

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The principal problems in purchased parts are the [] lenses and the cathode-ray tubes. The [] F2 lenses [] scheduled for delivery in the first of June have been postponed until July 22nd. The delivery of cathode-ray tubes from [] is also overdue. Although tubes are available for checking out the first unit, it has become apparent that we will have to consult another manufacturer to supply this item. Based upon the test results with the [] cathode-ray tube, we will decide whether to use the transparent phosphor cathode-ray tube or to procure tubes similar to those presently used from, possibly, []

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III. Expected Progress During July, 1960

Internal cabling and construction for the three racks of the first unit are expected to be complete in July. Sub-system test of the Photo-transmission will be completed. During this test phase, [] Z4686PZB Cathode-ray Tube which has been received on loan will be tested as an alternate for the [] tubes. The remainder of the sub-system testing may also be completed in July. In accordance with our present schedule, we hope to be able to start system testing by the first of September.

Program tapes to be prepared for test are:

- A. Twenty-degree oblique rectification, 9" x 9" format
- B. Panoramic rectification, 3" format
- C. 1:1 enlargement (calibration tape)
- D. Static calibration tape block

IV. Summary

Progress during the month of June has been consistent with last month's expectations; however, delays occurring during earlier months have caused a delay in the schedule affecting system testing of the first unit which is now not expected to be complete until September.

System Manager

HLS/p

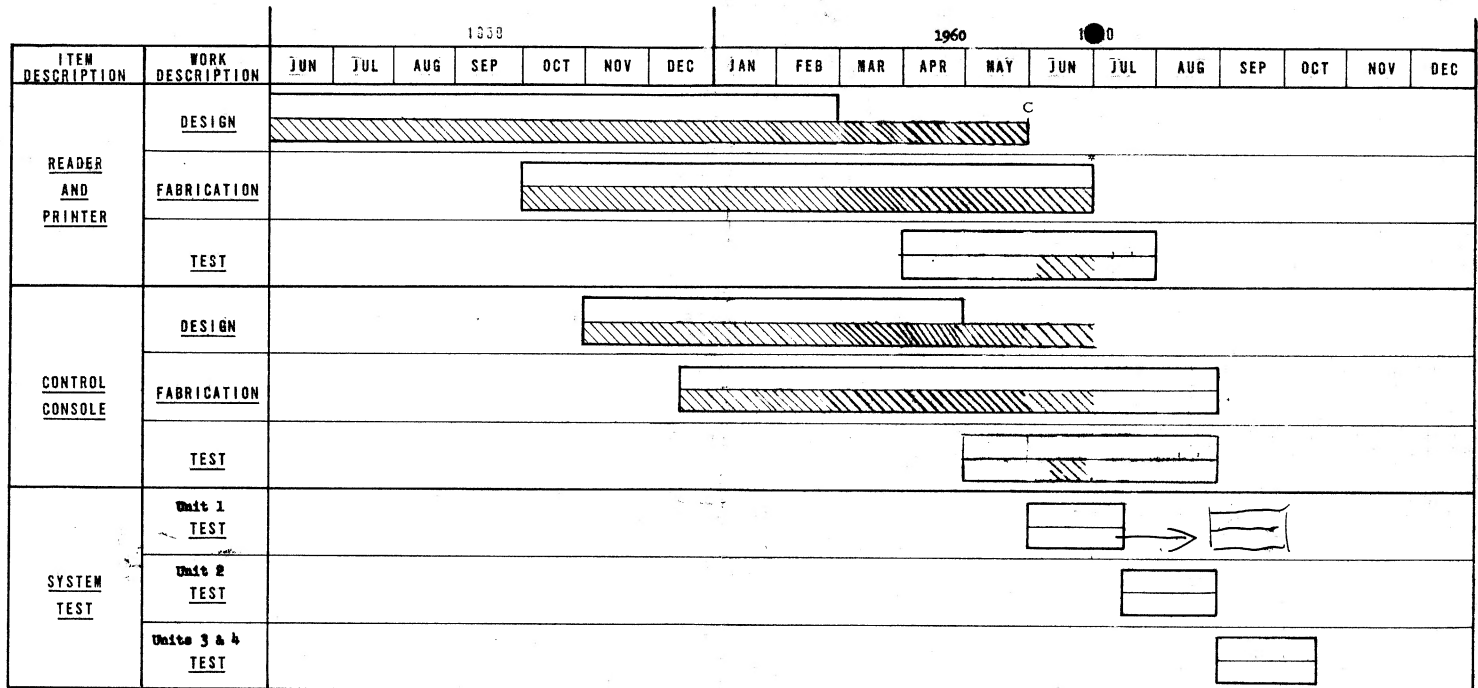
Enclosure (1)

STATINTL

Approved For Release 2002/06/17 : CIA-RDP78B04747A000600080007-1

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PHOTOGRAPHIC RECTIFIER-PRINTER WORK SCHEDULE AND PROGRESS CHART



PHASE DIAGRAM FOR READ

| | Pre Design | Design | Release | Purchase Parts | Fabrication | Assembly |
|------------------------------------|------------|------------|------------|-------------------------|-------------------------|-------------------------|
| Structure | Complete | Complete | Complete | Complete | 2 Complete 2 In Work | 1 Complete |
| CRT Housing | Complete | Complete | Complete | Complete | 1 Complete | 1 Complete |
| CRT Elect. Parts | Complete | Complete | Complete | In Work | | |
| Track Assy., X Drive Lead Screw | Complete | Complete | Complete | Complete less motors | 1 Complete | 1 Complete |
| Valve, Pneu. & Vacuum | Complete | Complete | Complete | Complete | Complete | 1 Complete |
| Doors | Complete | Complete | Complete | Complete | Complete | In Work |
| Focus Current Regulator | Complete | Complete | Complete | Complete | 1 Complete | 1 Complete |
| X Deflection Amp. | Complete | Complete | Complete | Complete | 1 Complete | 1 Complete |
| Y Deflection Amp. | Complete | Complete | Complete | Complete | 1 Complete | 1 Complete |
| X Sweep Attenuator | Complete | Complete | Complete | Complete | Complete | 1 Complete |
| Y Sweep Attenuator | Complete | Complete | Complete | Complete | Complete | 1 Complete |
| Power Supply, 20kv | Complete | Complete | Complete | Complete | Complete | Complete |
| Power Supply, 1kv | Complete | Complete | Complete | Complete | 1 Complete | 1 Complete |
| PMT Drive & Servo | Complete | Complete | Complete | Complete less motor | 1 Complete | 1 Complete |
| Platen & Index Assembly | Complete | Complete | 1 Complete | 1 Complete | 1 Complete | 1 Complete |
| Film Index Drive & Servo | Complete | 1 Complete | 1 Complete | 1 Complete 1 In Work | 1 Complete 1 In Work | 1 Complete 1 In Work |
| PM Assy. & Video Amplifier | Complete | Complete | Complete | Complete | Complete | 1 Complete |
| Optisyn Pre-Amp | Complete | Complete | Complete | Complete | Complete | Complete |

PHASE DIAGRAM FOR PRINTER

| | Pre-Design | Design | Release | Purchase Parts | Fabrication | Assembly |
|------------------------------------|------------|----------|------------------------|-------------------|-------------------------|------------|
| Structure | Complete | Complete | Complete | Complete | 2 Complete 2 In Work | 1 In Work |
| CRT Housing | Complete | Complete | Complete | Complete | 1 Complete | 1 Complete |
| CRT Elect. Parts | Complete | Complete | Complete | Complete | Complete | |
| Track Assy., X Drive Lead Screw | Complete | Complete | Complete less screw | Complete | 1 Complete | 1 Complete |
| Valve, Pneu. & Vacuum | Complete | Complete | Complete | Complete | Complete | 1 Complete |
| Doors | Complete | Complete | Complete | Complete | Complete | Complete |
| Focus Current Regulator | Complete | Complete | Complete | Complete | Complete | Complete |
| X Deflection Amp. | Complete | Complete | Complete | Complete | 1 Complete | 1 In Work |
| Y Deflection Amp. | Complete | Complete | Complete | Complete | 1 Complete | 1 In Work |
| X Drive Assembly | Complete | Complete | Complete | Complete | Complete | 1 Complete |
| Film Index | Complete | Complete | Complete | Complete | Complete | 1 Complete |
| Lens Board | Complete | Complete | Complete | Complete | 2 Complete | 2 Complete |
| Platen | Complete | Complete | | Complete | 1 Complete 3 In Work | 1 Complete |
| Cassettes | Complete | Complete | Complete | Complete | Complete | 2 Complete |
| Vacuum Pump | | | | 1 Complete | | 1 Complete |

| | Pre Design | Design | Release | Purchase Parts | Fabrication | Assembly |
|--------------------------|------------|----------|----------|-------------------|-------------------------|-------------------------|
| Rack | Complete | Complete | Complete | Complete | | 1 Complete |
| Monitor | Complete | Complete | | Complete | Complete | 1 Complete |
| Master Control | Complete | Complete | | Complete | 1 In Work | 1 In Work |
| Sweep Generator | Complete | Complete | | 4 Complete | 1 Complete | 1 Complete |
| Transportape | Complete | Complete | | Complete | Complete | 1 Complete |
| Tape Reader | Complete | Complete | | 1 Complete | 1 Complete | 1 Complete |
| Relay Control Chassis | Complete | Complete | In Work | In Work | In Work | |
| Program Control | Complete | Complete | Complete | | In Work | |
| Film Index Servo | Complete | Complete | Complete | 1 Complete | 1 In Work | 1 In Work |
| Scan Servo | Complete | Complete | Complete | Complete | 1 Complete | 1 Complete |
| Scan Comparator | Complete | Complete | Complete | 1 Complete | 1 Complete 3 In Work | 1 Complete 3 In Work |
| Scan Computer | Complete | Complete | Complete | Complete | 1 Complete 3 In Work | 1 Complete 3 In Work |
| Power Supply, 28V | Complete | Complete | Complete | Complete | 1 Complete | 1 Complete |
| Power Supply, 300V | Complete | Complete | Complete | Complete | 2 Complete | 2 Complete |
| Power Supply, 125V | Complete | Complete | Complete | Complete | 2 Complete | 2 Complete |
| Cables (internal) | Complete | Complete | Complete | | In Work | |